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Cognitive impairment in multimorbid elderly patients with hypertension and chronic kidney disease

Abstract:

Aim: To assess cognitive functions in elderly patients with arterial hypertension (AH) and concomitant chronic kidney disease (CKD).

Methods: Three groups were formed according to medical records data: 1) patients with AH (n=110, median age 76 [69,8;82,3] years), 2) patients with AH and CKD stage 3a (n=110, median age 81[73,8;84,3] years), 3) patients with AH and CKD stage 3b (n=110, median age 79,5 [72;85,3] years). Cognitive assessment included MMSE, MoCA, DSST, VFT, ADAS-cog.

Findings: Patients with AH and CKD stage 3b had significantly lower MMSE и MoCA scores (26 [24;28,3] and 23 [21;25] points) compared to group 1 (28 [25,8;29] and 24 [22;26] points; p=0.001 and p=0.034). Similarly, group 3 had significantly lower DSST scores (19 [17;22]) compared to group 1 (21,5 [19;25]; p=0.045). VFT showed significantly lower verbal fluency in group 3 compared to group one - 12 [11;13] and 11 [10;13] words, respectively (p=0.003). Group 3 had significantly higher ADAS-Cog score (15,5 [11;19]) compared to group 1 (11 [9;15]; p<0,001) and group 2 (13,5 [10;17]; p=0.029).

Results: Multimorbidity in the form of the concomitant CKD in patients with AH may contribute to the development of more prominent cognitive impairment, deterioration of executive function, semantic memory, as well as attention, visual-spatial ability, and working memory. These correlations may become more pronounced with the increasing severity of CKD

Biography

Kantemir Dzamikhov – researcher, physician at the Russian Medical Academy of Continuous Professional Education (Department of therapy and multimorbid pathology named after academician M.S. Vovsi). Has publications in Russian and International journals in the scientific direction: cognitive impairment in elderly patients. Member of the Russian Scientific Society of Internal Medicine (RSMSIM), European Federation of Internal Medicine Academy (EFIM Academy).